



ELECTRONIC CONTROL UNIT (cod. 2303 Series) for TAURUS / TORG

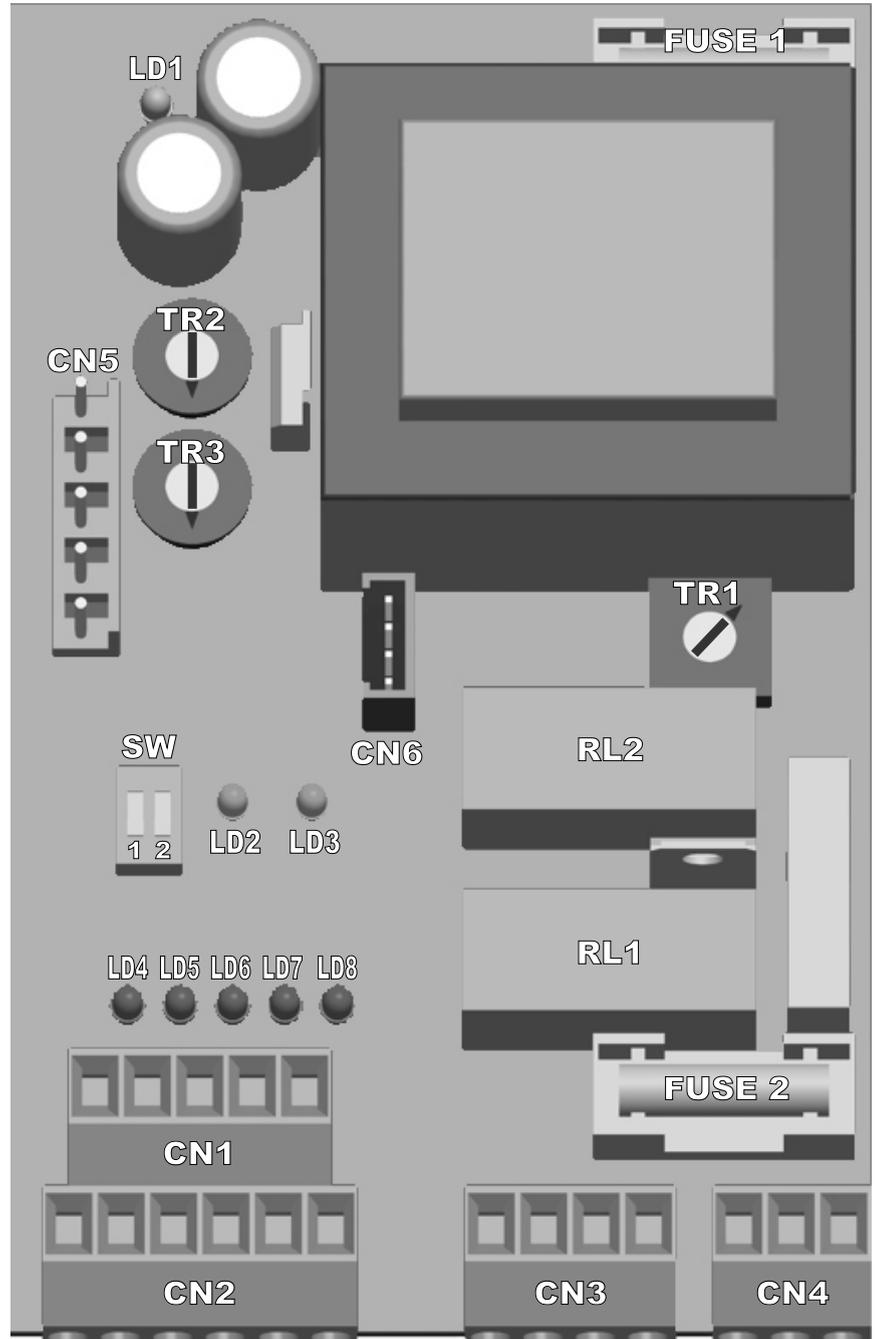
Accessories power supply:
24V dc Max 200 mA

Trimmer regulation:
Open pause time
Brake regulation
Motor torque regulation

Logics selection:
Automatic
Semiautomatic

Pin header connector:
Radio receiver

Main features:
Device of anti-crushing reversal



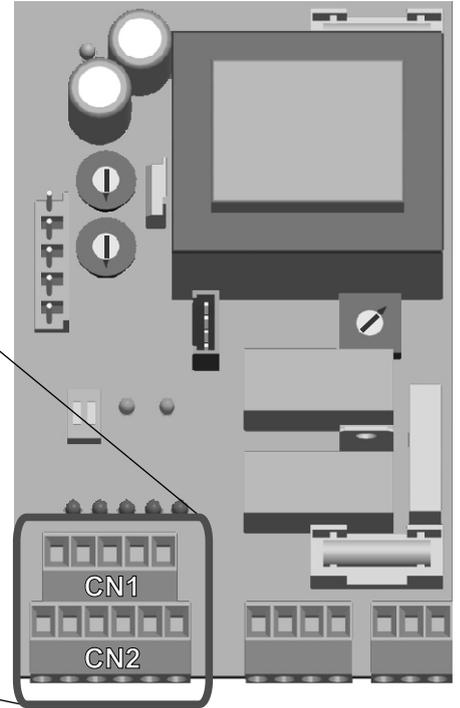
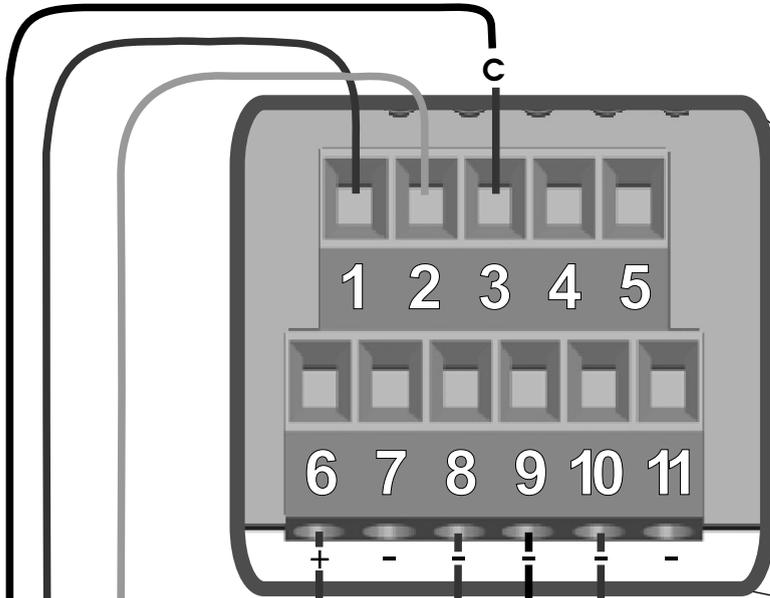
FUSE 1	24Vdc Fuse (2A)
FUSE 2	230/115Vac Fuse (4A)
TR1	Regulation motor torque
TR2	Time of pause regulation (2 secs. – 2 min.)
TR3	Brake regulation
SW.1	Automatic closing Starting Up
SW.2	Encoder Activation
RL1	Relay motor direction
RL2	Relay motor activation
CN1	Low Tension Connector
CN2	Low Tension Connector
CN3	Motor- flashing light Connector

CN4	230/115Vac Power Supply Connector
CN5	Radio receiver connector
CN6	Encoder connector
LD1	Board supply led
LD2	Opening led
LD3	Closing led
LD4	Start led
LD5	Stop led
LD6	Photocell led
LD7	Limit switch 1 led
LD8	Limit switch 2 led



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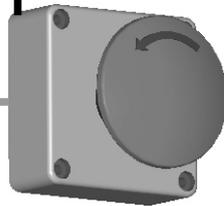
CN1 & CN2: Main Terminals



Stop Button

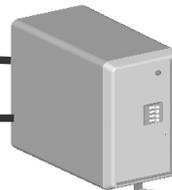
The pressure of this button stops the automation in whatever condition it can be it needs a start command to re-establish the movement

Notice: if it is not used, make a link between terminals n.2 and 9.



Start Button

An impulse given to this entrance commands the opening/closing of the automation. It can be given by a key switch, a loop detector, a keyboard controller, etc.



RX



TX



Photocells connection

In case of the crossing of the photocells beam, the automation reverses the movement if in closing.

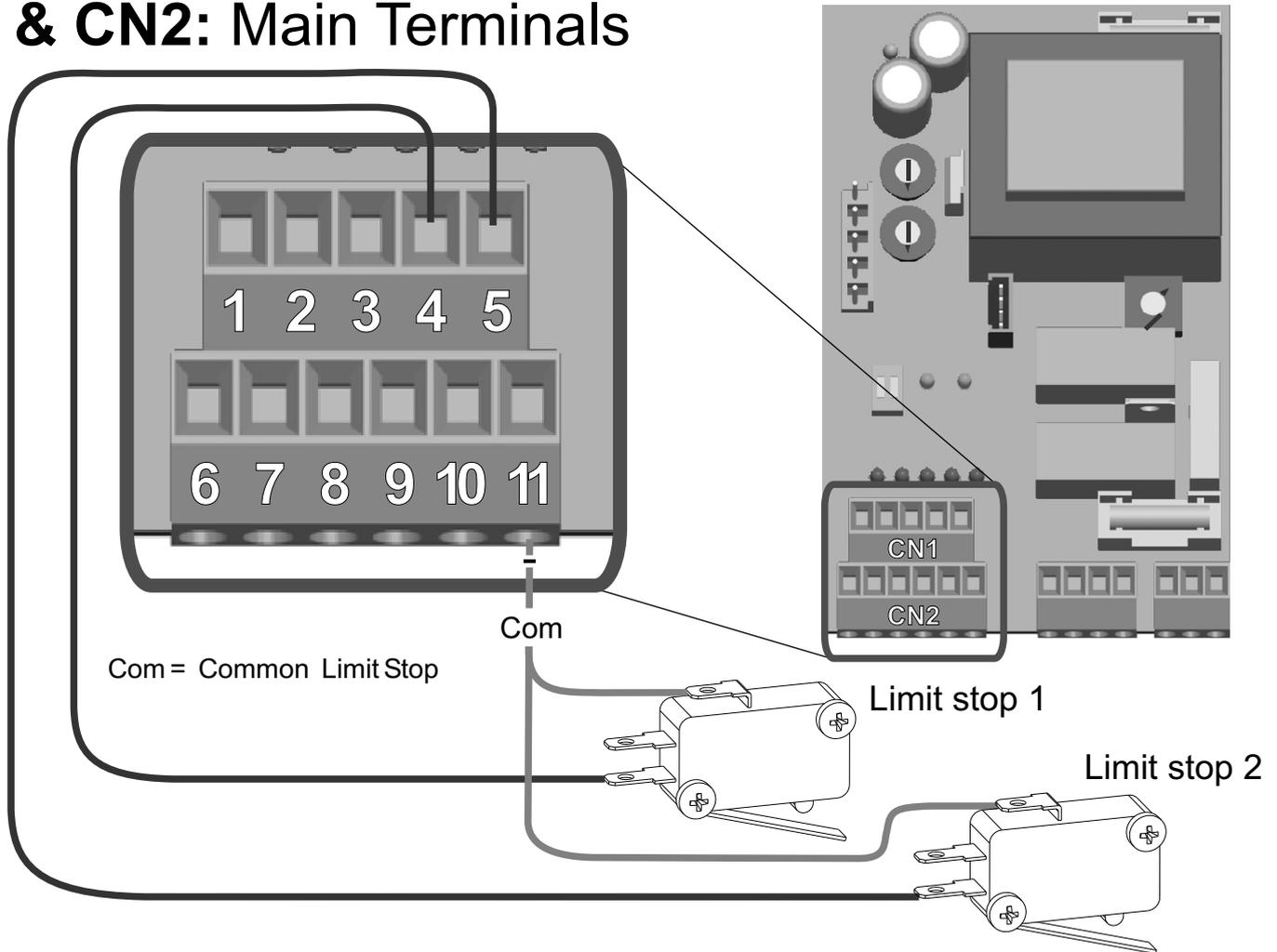
+ = 24Vdc - = 0Vdc C = Contact

Notice: if it is not used make a link between terminals 3 and 10.

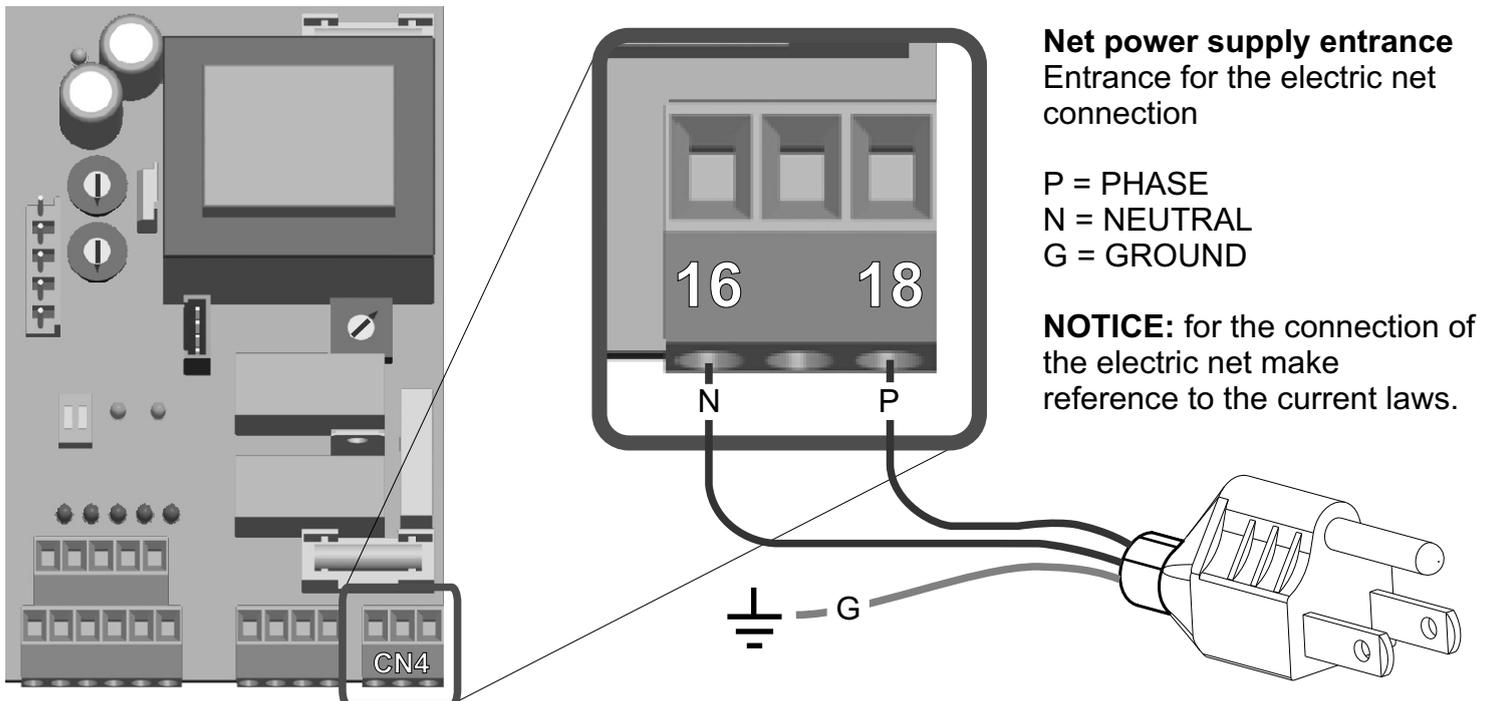


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CN1 & CN2: Main Terminals



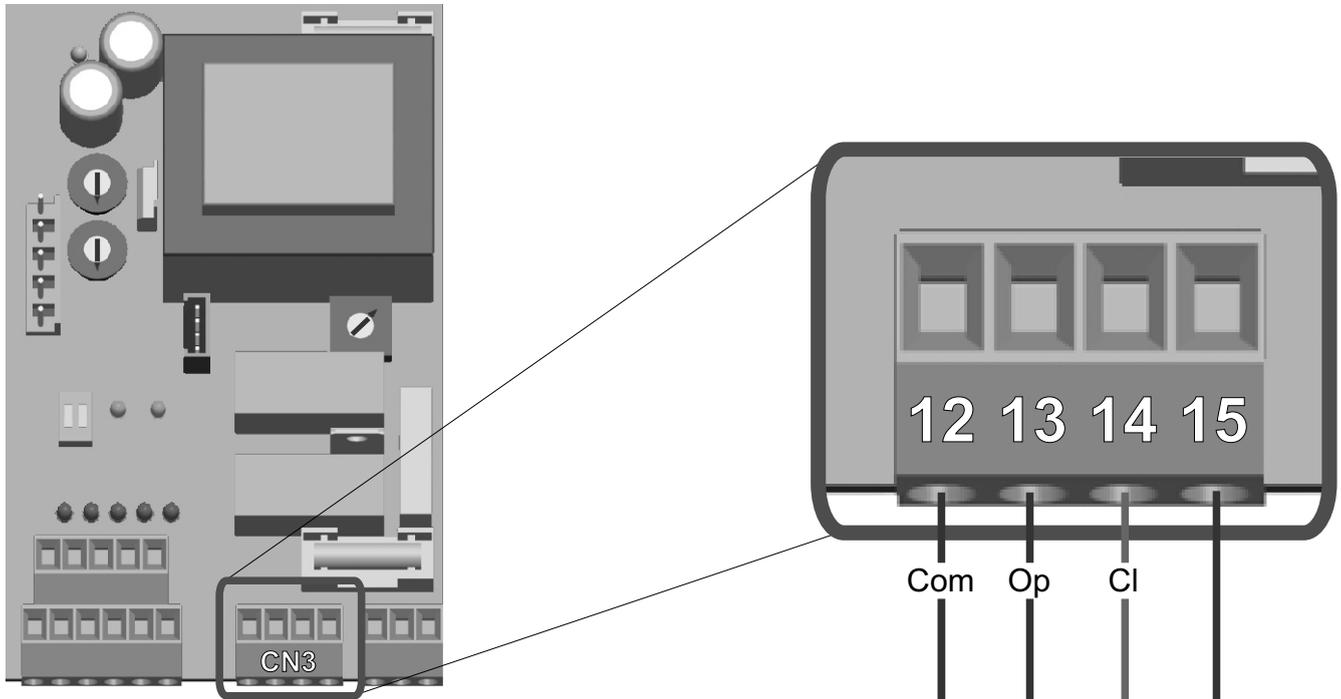
CN4: Power supply connector





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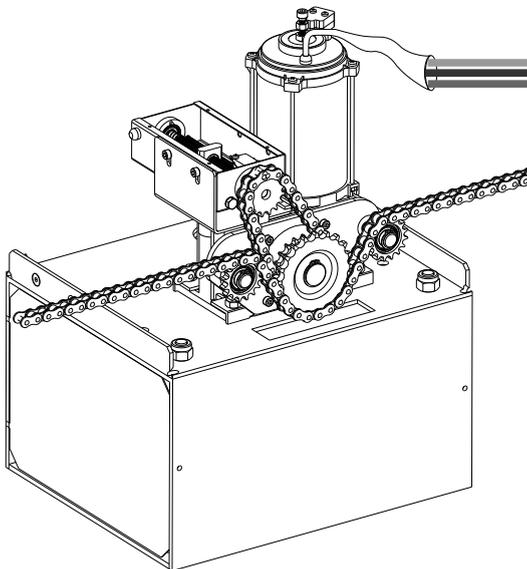
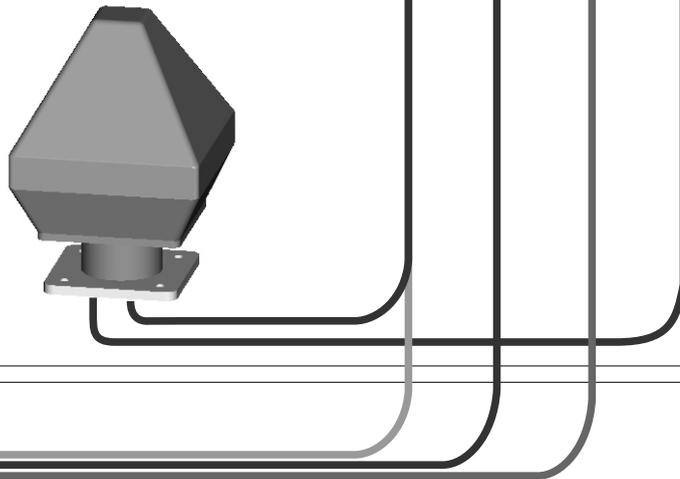
CN3: Motor - flashing lamp connector



Warning Lamp

The warning lamp, which must be placed, must have a flashing card (code 23104015). To have it linked connect the flashing lamp wires as in the picture.

Com = Common Motor



ENGINE Taurus

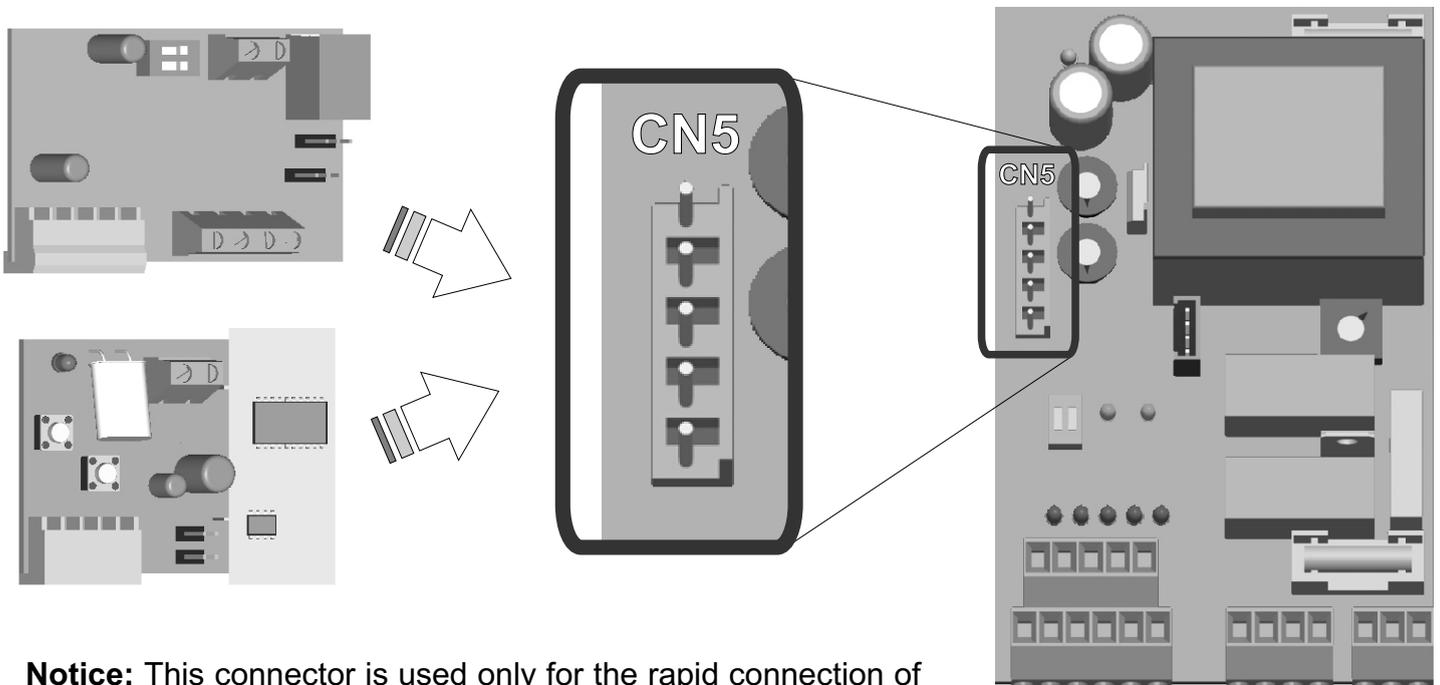
Exit for the connection of the engine

Op = OPEN
Cl = CLOSED
Com = COMMON



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CN5: Radio Receiver Connector or decoder module



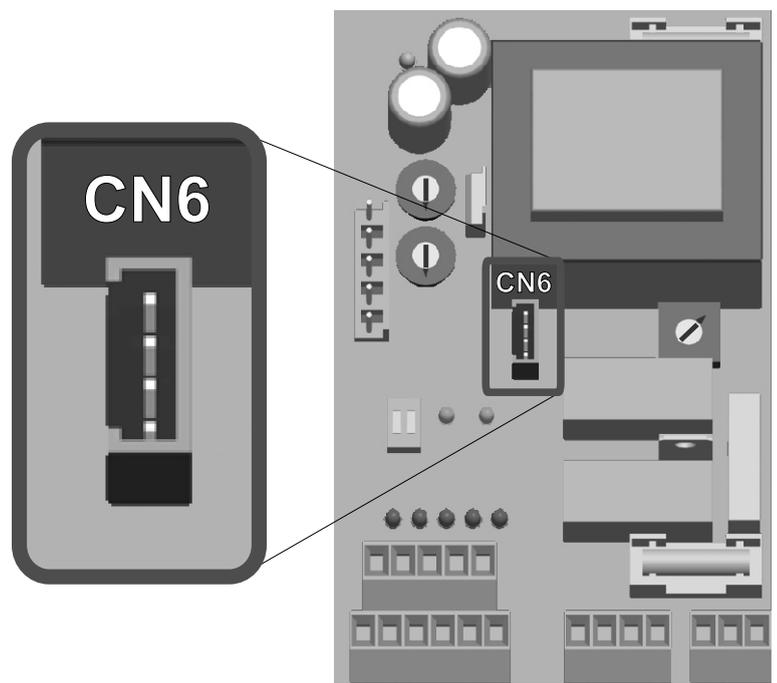
Notice: This connector is used only for the rapid connection of SEA designed products. Connector used for the rapid connection of inserting receivers or of the Decoder Module with keyboard.

CN6: Encoder connector

CN6: ENCODER CONNECTOR

This connector is used to link the encoder (survey system of gate position) to the equipment.

If this electronic card is purchased inside the motor reducer, the encoder will be already inserted in the CN6 connector. If it is purchased separated by the motor reducer, it must purchase the specified encoder kit for Taurus to which an electronic card is applied. The encoder kit must belong to SEA.





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SW: Programming Dip-switch

WORKING LOGICS

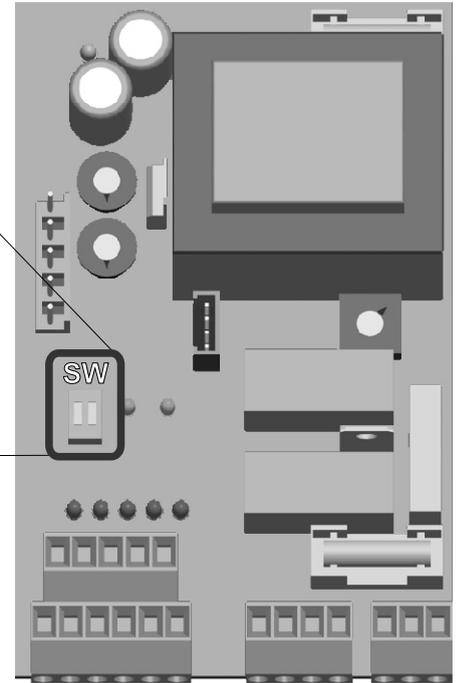
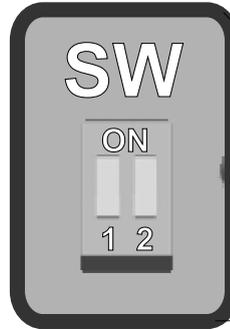
It can be selected two different equipment working logics which programming occurs using the DIP 1 function.

Semi automatic logic bring the DIP 1 on ON

The first start impulse opens the gate, a second impulse received during the opening phase commands the stopping and the closing of the gate.

Automatic logic bring DIP 1 on ON

The first impulse opens the gate which automatically does a pause cycle before closing. The pause time which can change from 5 to 120 seconds can be programmed turning the TR2 TRIMMER. In anti-clockwise the pause time increases, in clockwise it decreases. An impulse received during the closing it orders the re-opening of the gate.



DIP	OPENED / CLOSED	DIP 1 PROGRAMMING FOR THE CHOICE OF THE WORKING LOGIC
1	ON	If DIP 1 is set out in this way, this equipment will operate following the automatic logic (A)
1	OFF	If DIP 1 is set out in this way, this equipment will operate following the semi-automatic logic (E)

DIP	OPENED / CLOSED	DIP 2 PROGRAMMING (Activation of different options)
2	ON	The DIP 2 function allows to activate the anti-crushing security . The anti-crushing security operates with DIP 2 ON (only with the encoder installed on the motor reducer).

LD: Leds

LD1 (Power Supply led)

When the card is supplied the led is switched on

LD2 (Opening led)

When the gate is opening the led switches on

LD3 (Closing led)

When the gate is closing the led switches on

LD4 (Start led)

It must be normally switched on and it must switch off when an opening command is given (for ex. Radio receiver, key switch, loop detector reader, etc)

LD5 (Stop led)

It must be normally switched on and it must switch off when a stop command is given

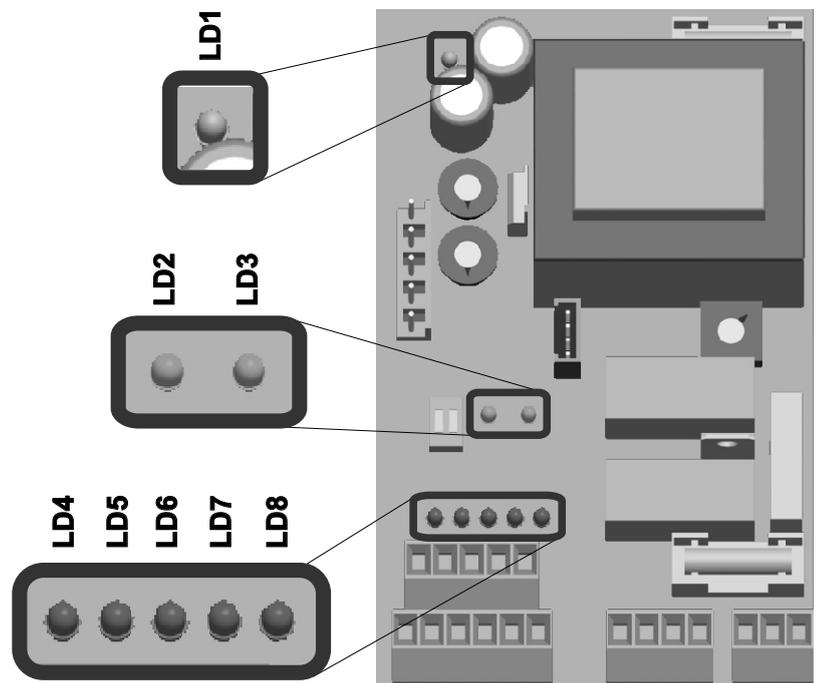
LD6 (Photocell led)

It must be usually switched on and it must switch off when the photocell is darkened

LD7 (Limit switch 1 led)

LD8 (Limit switch 2 led)

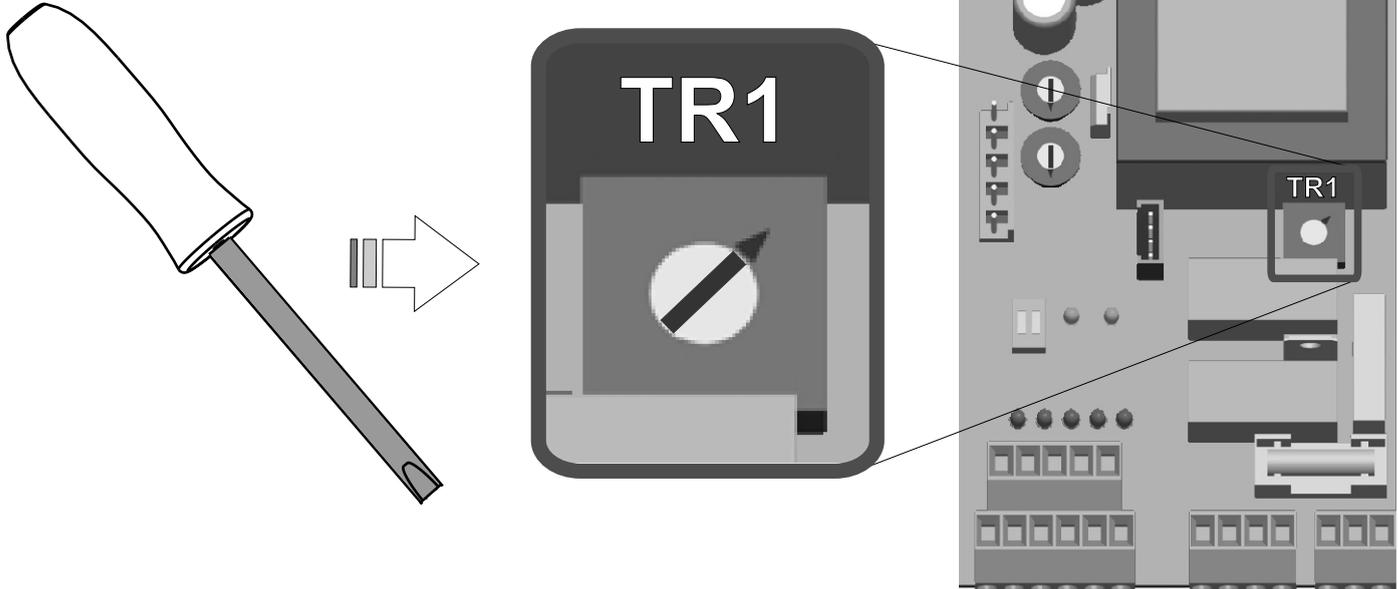
They must be normally switched on and they must switch off when the limit switch registers a presence





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TR1: Regulation motor torque



Attention: Adjust the force of traction of the gate with the screwdriver on Trimmer TR1: the more the gate weighs, the more it must be turned into an anti-clockwise direction. A wrong adjustment of the force in relation to the gate weight can cause crushing danger (because of excessive adjustment in anti-clockwise direction) or difficulties of gate movement (because of lower adjustment in clockwise direction).

TR2: Pause time regulation

TR3: Brake regulation

TR2: Pause time regulation

The trimmer TR2 regulates the pause time (time for which the leaves stay opened before closing automatically). This time can be changed from 5 to 120 sec. Time increases turning the trimmer anti-clockwise.

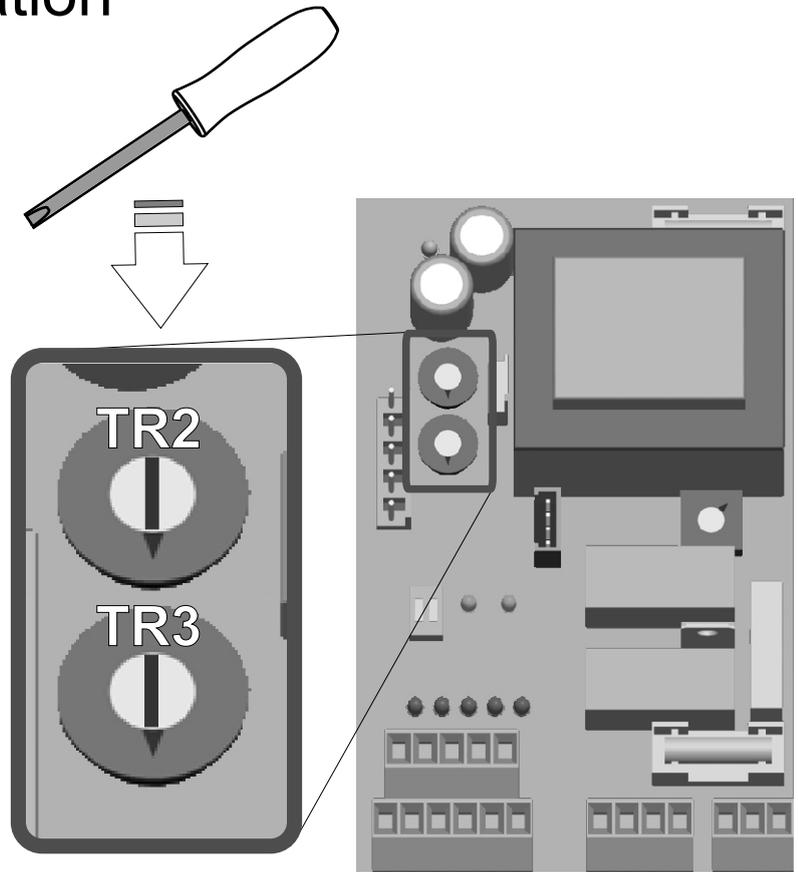
NOTICE: To allow a correct reading of the trimmers do the adjustments with the gate closed.

TR3: Brake regulation

To obtain an effective adjustment of the brake intensity it occurs to proceed in the following way:

- 1) Take power supply off
- 2) Turn the trimmer of the brake (TR3) completely in anti-clockwise
- 3) Acting on the engine release, bring the gate in about the middle of the run by hand (free limit switches)
- 4) Reintroduce the engine release (see instructions)
- 5) Reintroduce power supply
- 6) Give a start impulse
- 7) The gate will close until it will stop abruptly at the limit switch

At this point, adjust through the trimmer TR3 the intensity of the desired stop





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CN1 & CN2: Main Terminals

**CONNECTING SCHEME OF THREE READERS OF MAGNETIC LOOP DETECTORS:
TWO OF THEM USED AS SECURITY DEVICE AND ONE AS FREE EXIT.**

C1 = Opening contact
C2 = Photocell contact
+ = 24 Vdc
- = 0 Vdc

SAFETY LOOP 1

Connecting scheme of loop detector 1 reader.

2 = 0V
1 = 24V
11 = Contact exit n.c.
4 = Common contact n.c.
7 = Wire loop
8 = Wire loop

SAFETY LOOP 2

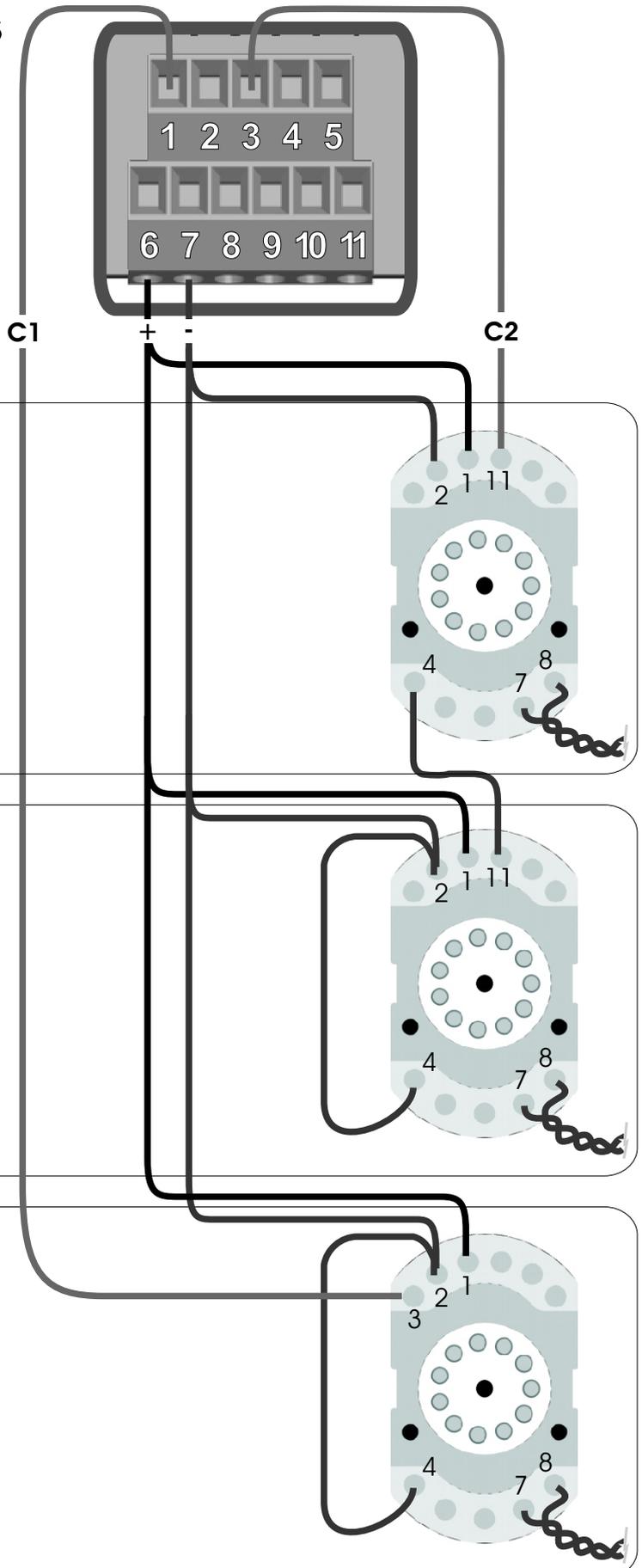
Connecting scheme of loop detector 2 reader.

2 = 0V
1 = 24V
11 = Contact exit n.c.
4 = Common contact n.c.
7 = Wire loop
8 = Wire loop

FREE EXIT LOOP

Connecting scheme of loop detector reader.

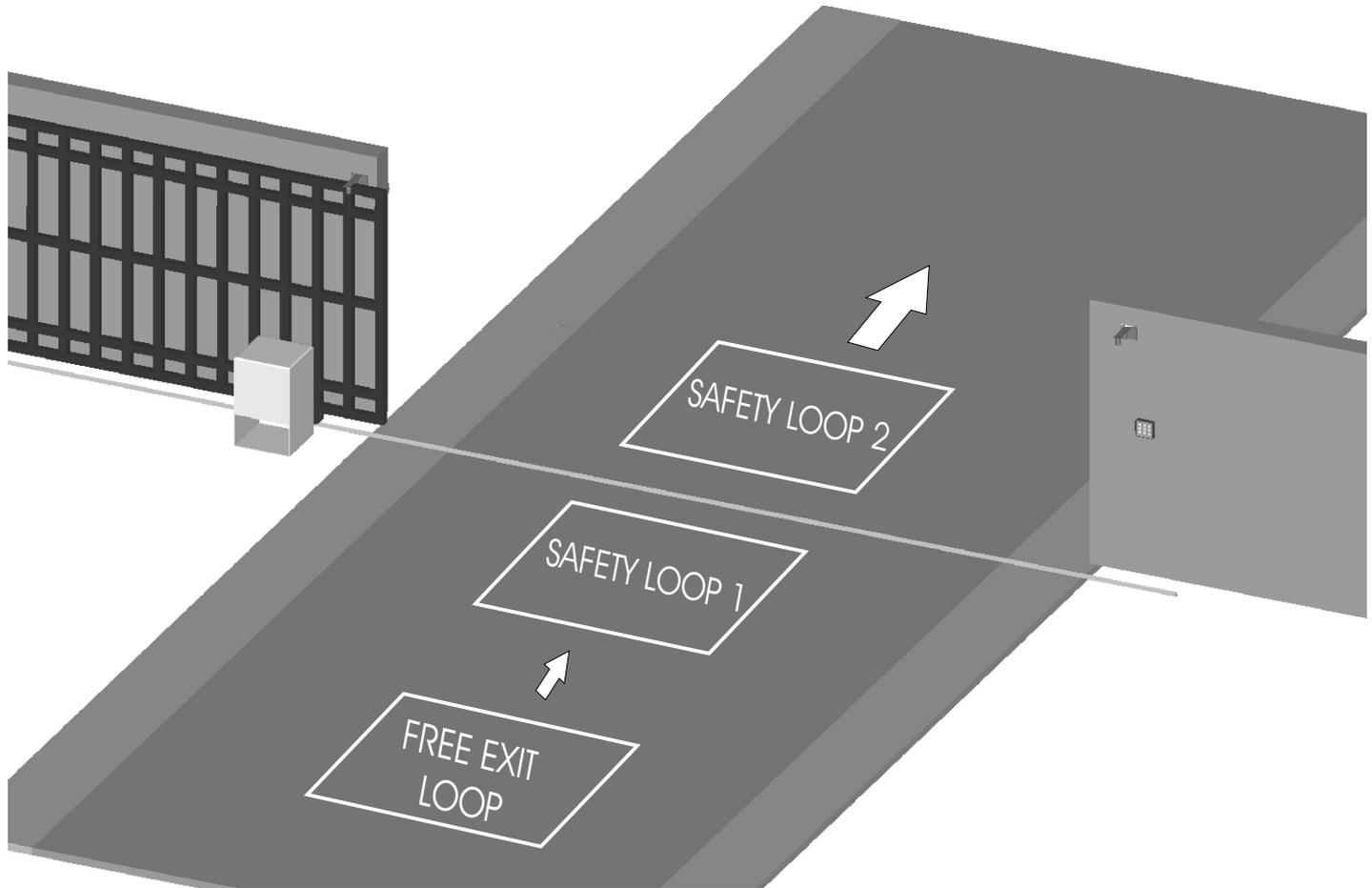
2 = 0V
1 = 24V
3 = Contact exit n.o.
4 = Common contact n.o.
7 = Wire loop
8 = Wire loop





ELECTRONIC CONTROL UNIT (cod. 2303 Series) for TAURUS / TORG

**INSTALLATION SCHEME OF THREE READERS OF MAGNETIC LOOP DETECTORS:
TWO OF THEM USED AS SECURITY DEVICE AND ONE AS FREE EXIT.**



Notice: This kind of installation does not guarantee security to pedestrians.

SAFETY PRECAUTIONS

All electrical installation work should conform to the current edition of the LEE Regulations and all electrical work should only be carried out by a competent electrician. A 16A - 0,03A differential switch must be incorporated into the mains electrical supply of the gates. Earth bonding of the entire gate system must be correctly carried out. To prevent mains interference all low voltage cabling (Push button, Photocell, Radio etc.) should be run in separate cable ducts from main carrying cables.

Note: Use "cable clips" and/or "duct/box pipes" fitting close to the control panel box so to protect the interconnection cables against pulling efforts.

SPARE PARTS

To obtain spare parts contact:

SEA USA Inc. 10850 N.W. 21st unit 160 DORAL MIAMI Florida (FL) 33172

INTENDED USE

The electronic control unit for Taurus/Torg has been designed to be solely used as control unit for the automation of sliding gates.

LIMIT OF GUARANTEE

The electronic control unit for Taurus/Torg is guaranteed for a period of 36 months. The guarantee period starts from the date stamp printed on the unit. The electronic control unit for Taurus/Torg guarantee will be void if the unit has been incorrectly installed, not used for the intended purpose, tampered with or modified in any way.

The validity of this guarantee only extends to the original purchaser of the unit.

NOTE: THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT.



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